

20 dBi Gain, 60.5-91.9 GHz, WR12 Standard Gain Horn with 1.0mm Female Port

Rev 1

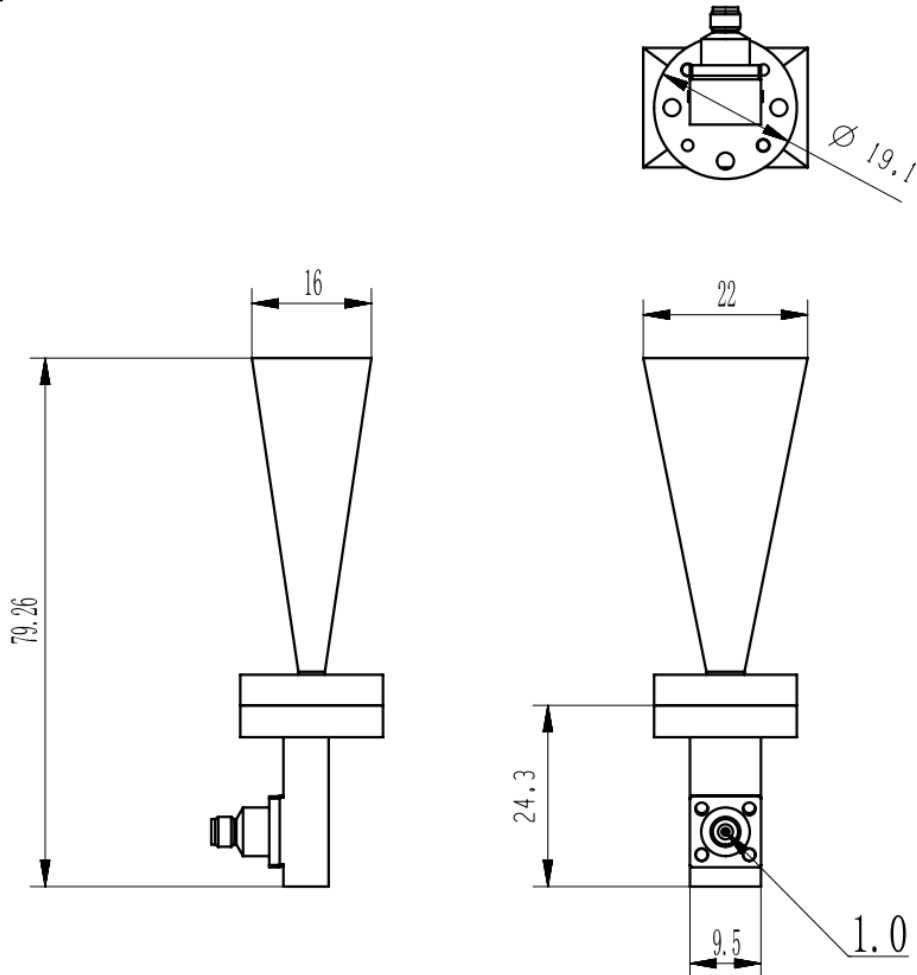
Electrical

| | |
|-----------------------|--|
| Frequency Range | 60.5-91.9 GHz |
| Norminal Gain | 20 dBi |
| Polarization | Linear |
| VSWR | 1.5 max |
| 3dB Beamwidth | E-Plane: 11.2~15.9 deg, H-Plane: 10.6~15.0 deg |
| Operating Temperature | -40°C~+70°C |

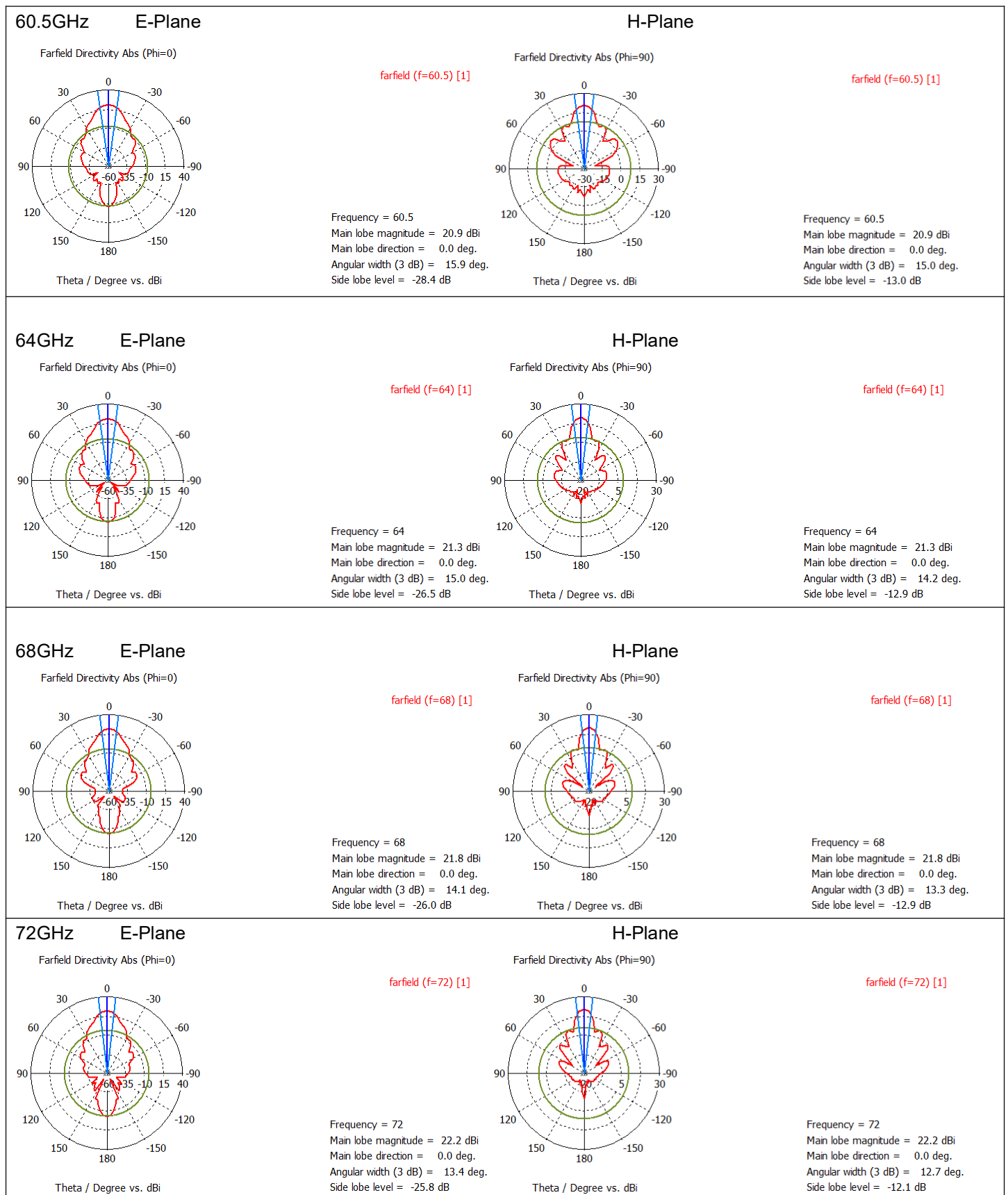
Mechanical

| | |
|--------------------------|------------------------------------|
| Waveguide Size | WR12 |
| Flange Type | UG387/U-Mod Round Cover Flange |
| Body Material and Finish | Copper, painting over gold plating |
| RF Connector | 1.0mm Female |

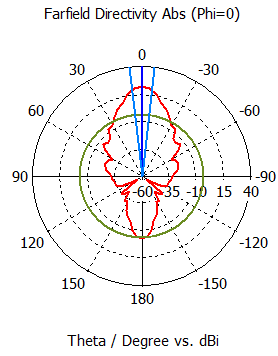
Dimensions(mm)



Simulated Antenna Patterns



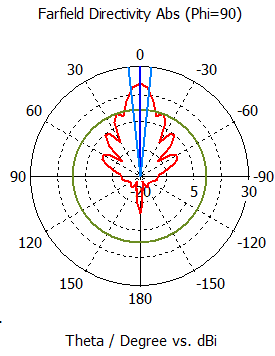
76GHz E-Plane



farfield (f=76) [1]

Frequency = 76
 Main lobe magnitude = 22.6 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 12.8 deg.
 Side lobe level = -25.8 dB

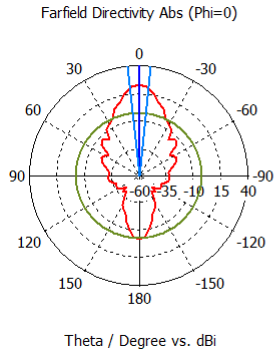
76GHz H-Plane



farfield (f=76) [1]

Frequency = 76
 Main lobe magnitude = 22.6 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 12.1 deg.
 Side lobe level = -11.8 dB

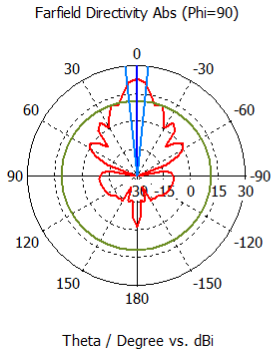
80GHz E-Plane



farfield (f=80) [1]

Frequency = 80
 Main lobe magnitude = 23.0 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 12.3 deg.
 Side lobe level = -25.1 dB

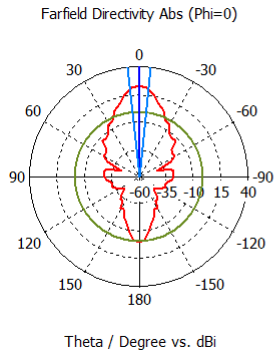
80GHz H-Plane



farfield (f=80) [1]

Frequency = 80
 Main lobe magnitude = 23.0 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 11.6 deg.
 Side lobe level = -11.8 dB

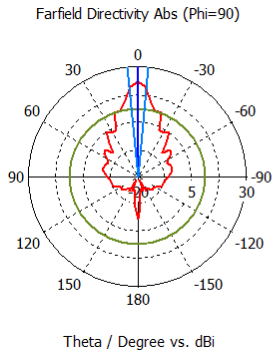
84GHz E-Plane



farfield (f=84) [1]

Frequency = 84
 Main lobe magnitude = 23.2 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 11.9 deg.
 Side lobe level = -24.0 dB

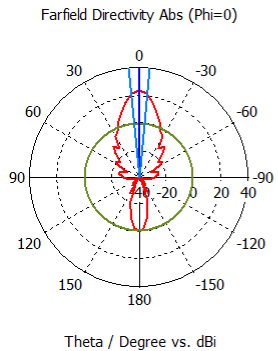
84GHz H-Plane



farfield (f=84) [1]

Frequency = 84
 Main lobe magnitude = 23.2 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 11.3 deg.
 Side lobe level = -12.0 dB

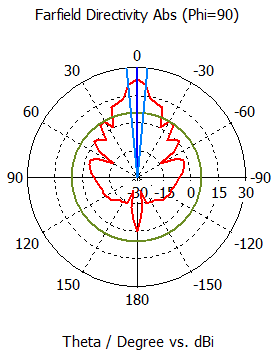
88GHz E-Plane



farfield (f=88) [1]

Frequency = 88
 Main lobe magnitude = 23.6 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 11.5 deg.
 Side lobe level = -24.0 dB

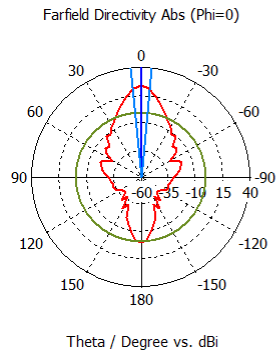
88GHz H-Plane



farfield (f=88) [1]

Frequency = 88
 Main lobe magnitude = 23.6 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 10.9 deg.
 Side lobe level = -17.9 dB

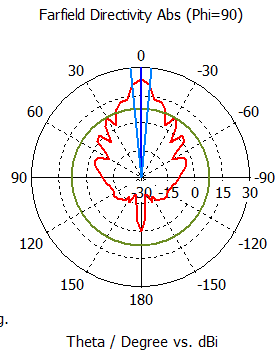
91.9GHz E-Plane



farfield (f=91.9) [1]

Frequency = 91.9
 Main lobe magnitude = 23.8 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 11.2 deg.
 Side lobe level = -24.2 dB

H-Plane



farfield (f=91.9) [1]

Frequency = 91.9
 Main lobe magnitude = 23.8 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 10.6 deg.
 Side lobe level = -15.9 dB

Typical Gain

